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Patent  
PD-200092

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Donald C. D. Chang, et al

Serial No. 09/594,374

Filed: June 15, 2000

For: COMMUNICATION SYSTEM AS A  
SECONDARY PLATFORM WITH  
FREQUENCY REUSE

: Date: October 30, 2003

: Group Art Unit: : 2681

: Examiner: Ronald J. Ward

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97(c)  
WITH PAYMENT OF FEE UNDER 37 C.F.R. 1.17 (p)

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The attention of the Office is drawn to the references listed on the accompanying PTO-1449 form (copies enclosed).

This Information Disclosure Statement is not to be construed as a representation that a search has recently been made, that additional information material to the examination of this application does not exist, or that this citation constitutes prior art.

Serial No. 09/694,374 .....Page 2

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PAYMENT OF FEE SET FORTH IN § 1.17 (p)

Please charge Deposit Account No. 50-0383 of Hughes Electronics Corporation, El Segundo, California, in the amount of \$180.00. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to that account. **This form is being submitted in duplicate.**

Respectfully submitted,  
DONALD C. D. CHANG, et al

By: Vijayalakshmi D. Duraiswamy  
Vijayalakshmi D. Duraiswamy  
Attorney for Applicant  
Registration No. 31,505

Enclosure: Form PTO-1449 w/references  
HUGHES ELECTRONICS CORPORATION  
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El Segundo, CA 90245-0956  
(310) 964-0733

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**COPY****PATENT APPLICATION**  
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|                                                          |                                         |                     |
|----------------------------------------------------------|-----------------------------------------|---------------------|
| <b>Form PTO-1449</b>                                     | Serial Number<br>09/594,374             | Docket<br>PD-200092 |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b> | Applicant<br>DONALD C. D. CHANG ET. AL. |                     |
| (Use several sheets if necessary)                        | Filing Date<br>June 15, 2000            | Group<br>2681       |

**U.S. PATENT DOCUMENTS**

|  | Document Number | Date      | Name                 | Class | Sub Class |
|--|-----------------|-----------|----------------------|-------|-----------|
|  | 4,085,368       | 04/18/78  | Yeh                  |       |           |
|  | 4,236,161       | 11/25/80  | Ohm                  |       |           |
|  | 4,689,625       | 08/25/87  | Barmat               |       |           |
|  | 4,819,227       | 4/ 4 /89  | Rosen                |       |           |
|  | 4,823,341       | 04/18/89  | Rosen                |       |           |
|  | 5,444,449       | 08/22/95  | Poskett et al.       |       |           |
|  | 5,555,257       | 9/10/98   | Dent                 |       |           |
|  | 5,592,481       | 01/07/97  | Wiedeman et al.      |       |           |
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|  | 5,678,174       | 10/14/97  | Taylor               |       |           |
|  | 5,732,351       | 03/24/98  | Olds et al.          |       |           |
|  | 5,894,590       | 04/13/99  | Vait et al.          |       |           |
|  | 5,903,549       | 05/11/99  | Von der Embse et. al |       |           |
|  | 5,946,803       | 08/ 31/99 | Ibanez-Meier et al.  |       |           |
|  | 5,949,766       | 09/07/99  | Ibanez-Meier et.al   |       |           |
|  | 5,966,371       | 10/12/99  | Sherman              |       |           |
|  | 5,974,317       | 10/26/99  | Djukanic et al.      |       |           |
|  | 5,974,324       | 10/26/99  | Henson               |       |           |
|  | 5,990,928       | 11/23/99  | Sklar et al.         |       |           |
|  | 6,002,935       | 12/14/99  | Wang                 |       |           |
|  | 6,019,318       | 02/01/00  | Cellier et al.       |       |           |

**FOREIGN PATENT DOCUMENTS**

|  | Document Number | Date     | COUNTRY | Class | Sub Class |
|--|-----------------|----------|---------|-------|-----------|
|  | EP 0 748 062 A  | 12/11/96 | EPO     |       |           |
|  | EP 0 887 951 A2 | 12/30/98 | EPO     |       |           |
|  | EP 1 037 403 A2 | 09/20/00 | EPO     |       |           |
|  | EP 1 139 583 A2 | 10/04/01 | EPO     |       |           |
|  | EP 1 148 662 A2 | 10/24/01 | EPO     |       |           |
|  | EP 1 158 698 A2 | 11/28/01 | EPO     |       |           |

**OTHER DOCUMENTS** (including Author, Title, Date, Pertinent Pages, etc.)

Cotella, Nicholas J. et al., "High Speed Internet Access via Stratospheric HALO Aircraft", INET 99 Proceedings, Internet Society, Technology, Wireless, 13 pages, June 8, 1999.

Examiner

Date Considered

**COPY****PATENT APPLICATION**  
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|                                                          |                                                |                            |
|----------------------------------------------------------|------------------------------------------------|----------------------------|
| <b>Form PTO-1449</b>                                     | <b>Serial Number</b><br>09/594,374             | <b>Docket</b><br>PD-200092 |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b> | <b>Applicant</b><br>DONALD C. D. CHANG ET. AL. |                            |
| (Use several sheets if necessary)                        | <b>Filing Date</b><br>June 15, 2000            | <b>Group</b><br>2681       |

**U.S. PATENT DOCUMENTS**

|  | Document Number | Date     | Name                | Class | Sub Class |
|--|-----------------|----------|---------------------|-------|-----------|
|  | 6,023,463       | 02/08/00 | Wiedeman et al.     |       |           |
|  | 6,040,798       | 03/21/00 | Kinal et al.        |       |           |
|  | 6,047,186       | 04/04/00 | Yu et al.           |       |           |
|  | 6,061,562       | 05/09/00 | Martin et al.       |       |           |
|  | 6,088,341       | 07/11/00 | Hinedi et al.       |       |           |
|  | 6,105,060       | 08/15/00 | Rothblatt           |       |           |
|  | 6,125,261       | 09/26/00 | Anselmo et al.      |       |           |
|  | 6,126,116       | 10/03/00 | Cellier             |       |           |
|  | 6,138,012       | 10/24/00 | Krutz et. al        |       |           |
|  | 6,151,308       | 11/21/00 | Ibanez-Meier et al. |       |           |
|  | 6,157,811       | 12/05/00 | Dent                |       |           |
|  | 6,180,994       | 12/12/00 | Wiedeman            |       |           |
|  | 6,169,910 B1    | 01/02/01 | Tamil et al.        |       |           |
|  | 6,173,178 B1    | 01/09/01 | Hammill et al.      |       |           |
|  | 6,178,328 B1    | 01/23/01 | Tang et al.         |       |           |
|  | 6,188,896 B1    | 02/13/01 | Perahia et al.      |       |           |
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|  | 6,215,776 B1    | 04/10/01 | Chao                |       |           |
|  | 6,236,834 B     | 05/22/01 | Poskett et al.      |       |           |
|  | 6,257,526 B1    | 07/10/01 | Taormina et al.     |       |           |
|  | 6,295,440 B2    | 09/25/01 | Chang et al.        |       |           |

**FOREIGN PATENT DOCUMENTS**

|                                                                               | Document Number | Date     | Country                                             | Class | Sub Class |
|-------------------------------------------------------------------------------|-----------------|----------|-----------------------------------------------------|-------|-----------|
|                                                                               | DE 19629 744 A  | 02/06/97 | Germany (Same patent family member as US 5,894,590) |       |           |
|                                                                               | WO 90/13186     | 11/01/90 | WIPO                                                |       |           |
|                                                                               | WO 97 07609 A   | 02/27/97 | WIPO                                                |       |           |
|                                                                               | WO 00/41340     | 07/13/00 | WIPO                                                |       |           |
| <b>OTHER DOCUMENTS</b> (including Author, Title, Date, Pertinent Pages, etc.) |                 |          |                                                     |       |           |
|                                                                               |                 |          |                                                     |       |           |
| <b>Examiner</b>                                                               |                 |          | <b>Date Considered</b>                              |       |           |



CERTIFICATE OF FACSIMILE TRANSMISSION UNDER 37 CFR 1.8  
I hereby certify that this correspondence is being facsimile transmitted to 703-872-9314 (Official Facsimile Number for TC 2600),  
addressed to: Commissioner for Patents, P.O.Box 1450, Alexandria, VA 22313-1450 on October 30, 2003 (date of facsimile  
transmission).

V.D. DURAISWAMY (Name of Applicant, Assignee or Registered Representative)

V.D. Duraiswamy (Signature) October 30, 2003 (Date of Signature)

Reg. No. 31,505

Customer No. 020991

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PD- 200092

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Donald C. D. Chang, et al

Serial No. 09/594,374

Filed: June 15, 2000

For: COMMUNICATION SYSTEM AS A  
SECONDARY PLATFORM WITH  
FREQUENCY REUSE

: Date: October 30, 2003

: Group Art Unit: : 2681

: Examiner: Ronald J. Ward

ADDENDUM TO SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER  
37 C.F.R. 1.97(c) WITH PAYMENT OF FEE UNDER 37 C. F.R. 1.17 (p)  
MAILED ON 10/30/03

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

A Supplemental Information Disclosure Statement for the above-identified patent application was mailed via Express Mail Post Office to Addressee with 37 CFR 1.10 certification today (October 30, 2003). Inadvertently, five WIPO documents were not listed on the form and copies were not included. Therefore, an addendum PTO 1449 page is enclosed herewith. The five PCT publications are listed thereon. Copies of the first pages of the documents are transmitted herewith. Since it would be impractical to transmit the entire documents via facsimile because of the large number of pages, a copy of this letter, PTO-1449 addendum page and copies of the entire documents will be mailed via Express Mail tomorrow (10/31/03). Please add these to the Supplemental IDS that has already been mailed via Express Mail.

Serial No. 09/594,374 .....Page 2

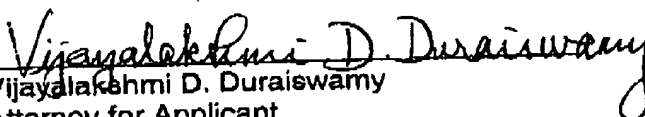
Also transmitted are copies (marked "COPY") of the Supplemental IDS cover letter and the other three pages of the PTO Form 1449 that were mailed today (10/30/03).

This Information Disclosure Statement is not to be construed as a representation that a search has recently been made, that additional information material to the examination of this application does not exist, or that this citation constitutes prior art.

PAYMENT OF FEE SET FORTH IN § 1.17 (p)

Since this is an addition to the Supplemental IDS of 10/30/03 that has already been mailed, it is respectfully submitted that the IDS fee should be charged only once and not twice. However, if the Office disagrees, please charge Deposit Account No. 50-0383 of Hughes Electronics Corporation, El Segundo, California, in the amount of \$180.00. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to that account. **This form is being submitted in duplicate.**

Respectfully submitted,  
DONALD C. D. CHANG, et al

By:   
Vijayalakshmi D. Duraiswamy  
Attorney for Applicant  
Registration No. 31,505

Enclosure: Addendum Form PTO-1449 (one page)  
Copies of first pages of references transmitted via facsimile (copies of entire documents mailed via Express Mail)

HUGHES ELECTRONICS CORPORATION  
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**PATENT APPLICATION**

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(Addendum to three page PTO Form 1449 filed via Express Mail on October 30, 2003)

|                                                          |                                         |                     |
|----------------------------------------------------------|-----------------------------------------|---------------------|
| <b>Form PTO-1449</b>                                     | Serial Number<br>09/594,374             | Docket<br>PD-200092 |
| <b>INFORMATION DISCLOSURE STATEMENT<br/>BY APPLICANT</b> | Applicant<br>DONALD C. D. CHANG ET. AL. |                     |
| (Use several sheets if necessary)                        | Filing Date<br>June 15, 2000            | Group<br>2681       |

**U.S. PATENT DOCUMENTS**

|  |  | Document<br>Number | Date | Name | Class | Sub<br>Class |
|--|--|--------------------|------|------|-------|--------------|
|  |  |                    |      |      |       |              |
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**FOREIGN PATENT DOCUMENTS**

|  |  | Document<br>Number | Date     | Country | Class | Sub<br>Class |
|--|--|--------------------|----------|---------|-------|--------------|
|  |  | WO 01/91310 A2     | 11/29/01 | WIPO    |       |              |
|  |  | WO 01/93458 A2     | 12/06/01 | WIPO    |       |              |
|  |  | WO 01/94969 A2     | 12/13/01 | WIPO    |       |              |
|  |  | WO 01/95520 A2     | 12/13/01 | WIPO    |       |              |
|  |  | WO 01/97388 A2     | 12/20/01 | WIPO    |       |              |

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, etc.)

|          |                 |
|----------|-----------------|
| Examiner | Date Considered |
|----------|-----------------|